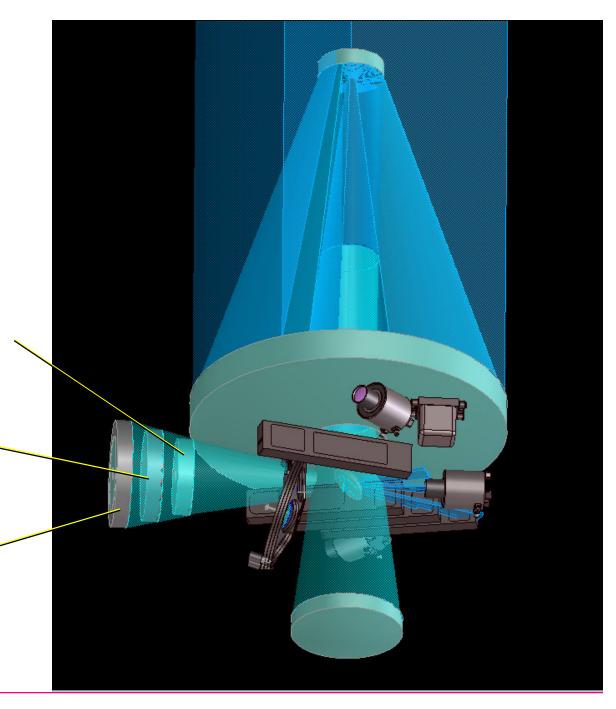
TMA 43 Optical Train Extended to accommodate the CCD Imager at 1.2 and 1.4 meters from the Centerline.

The rest of the instrument bay equipment and TMA-43 Optical elements are in position.

CCD Image plane at 1.0 meters from C.L.

CCD Image plane at 1.2 meters from C.L.

CCD Image plane at 1.4 meters from C.L.



To visualize the implications of repositioning the CCD assembly, the model was set up to show three representative conditions:

0 deg rotation (Baseline TMA 43 Optical train)

CCD @ 1.0 M from C.L. x 490 mm dia.Image plane.

CCD @ 1.2 M from C.L. x 590 mm dia.Image plane.

CCD @ 1.4 M from C.L. x 690 mm dia.Image plane.

30 deg rotation

CCD @ 1.0 M from C.L. x 490 mm dia.Image plane.

CCD @ 1.2 M from C.L. x 590 mm dia.Image plane.

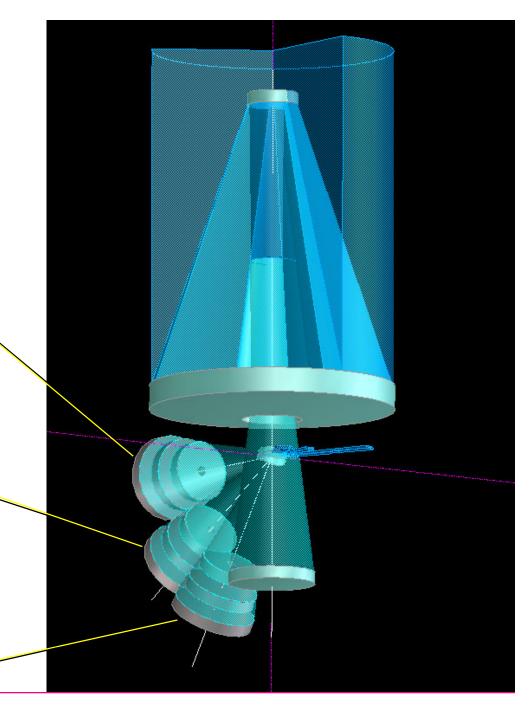
CCD @ 1.4 M from C.L. x 690 mm dia.Image plane.

60 deg rotation

CCD @ 1.0 M from C.L. x 490 mm dia.Image plane.

CCD @ 1.2 M from C.L. x 590 mm dia.Image plane.

CCD @ 1.4 M from C.L. x 690 mm dia.Image plane



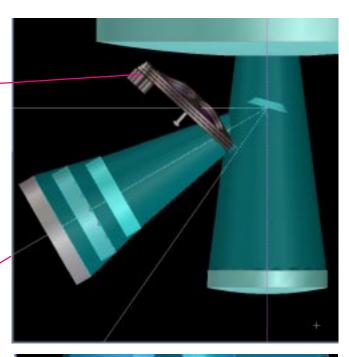
The three scenarios show a range of envelopes within the existing space frame structure

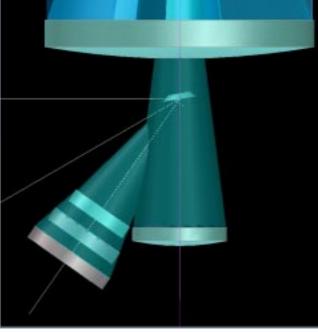


The filter assembly is shown in the baseline position

Filter assy has been rotated
180 deg. around the CCD axis
to avoid obscuring the
Secondary/Tertiary beam envelope

As the beam envelope is rotated, the filter assy interferes and has to move out and become larger.





At acute angles, the Filter assy must become very large.

Observatory and Launch Vehicle assembled in Launch configuration. All three CCD Beam scenarios are superimposed onto Optical Bench and Buss. Shields and some Baffles have been removed.

Note interference with existing Primary deck

